

Title (en)

Ion source, mass spectrometer, mass spectrometry, and monitoring system

Title (de)

Ionenquelle, Massenspektrometer, Massenspektrometrie und Überwachungssystem

Title (fr)

Source d'ions, spectromètre de masse, spectrométrie de masse et système de contrôle

Publication

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Application

EP 00120100 A 20000915

Priority

- JP 26604499 A 19990920
- JP 2000247937 A 20000810

Abstract (en)

An ion source using a corona discharge for ionising a sample gas at high efficient is provided. The corona discharge is generated at the tip end of a needle electrode by the application of high voltage. The direction in which the sample gas introduced into the corona discharge region and the direction in which ions are drawn by the corona are substantially opposite, thereby improving the efficiency of ionisation and maintaining a stable discharge for a long period.

IPC 1-7

H01J 49/04

IPC 8 full level

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CPC (source: EP US)

H01J 49/0422 (2013.01 - EP US); **H01J 49/168** (2013.01 - EP US); **G01N 30/724** (2013.01 - EP US)

Cited by

EP2296167A1; EP1376095A1; EP1275956A3; GB2521027B; US7091870B2; US10026600B2; WO2013144679A3; US6940067B2; US6806450B2; EP2387791A1; EP3047507B1

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